

DEUTSCH TOTALLY INTEGRATED TERMINATION SYSTEM

For the first time, electrical connector users are offered a Totally Integrated Termination System. The key element in this concept is the crimp rear-release contact which makes it possible to maintain uniform application standards throughout an entire interconnection package.

The Terminal Junction, which replaces the termination strip and uses a rear-release crimp type contact, is a keystone for complete integration. This device provides the same standards of application and performance gained through the use of advanced specification connectors. This includes the JIFFY JUNCTION® which is essentially a single conductor connector for a variety of uses including substitution for splices.

In the area of manufacturing and maintenance of wiring, it can now be accomplished in a single, clear specification. Use one standard crimp tool for high integrity termination; one assembly procedure, and one fail-safe, expendable insertion/removal tool.



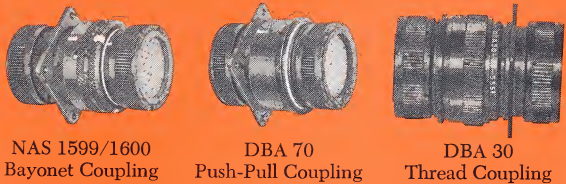
For more information contact The Deutsch Company, Electronic Components Division, Municipal Airport • Banning, California, or call your local Deutschman.

DEUTSCH
ELECTRONIC COMPONENTS DIVISION
Municipal Airport • Banning, California

THE DEUTSCH REAR-RELEASE FAMILY

This group of electrical connectors is broad enough to satisfy every high performance application requirement. The basis of their interrelationship is the crimp type, Rear Release, insertable/removable contact. The family has members to operate in passive or hostile environments; to handle loads large or small; and to meet the most advanced military and commercial specifications. For a close look at the whole spectrum of products, contact The Deutsch Company, Electronic Components Division, or call your local Deutschman.

TYPICAL REAR RELEASE CYLINDRICAL MINIATURES



NAS 1599/1600 Bayonet Coupling DBA 70 Push-Pull Coupling DBA 30 Thread Coupling

TYPICAL REAR-RELEASE RECTANGULAR SUBMINIATURES



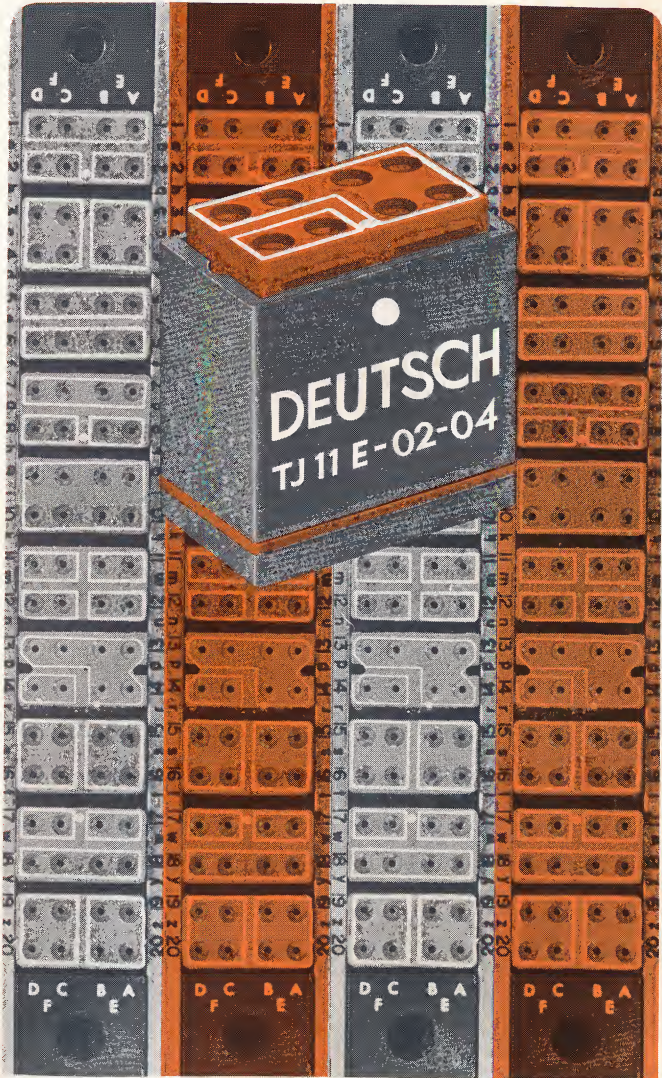
RE Jackscrew Coupling

TYPICAL REAR RELEASE CYLINDRICAL SUBMINIATURES



RTK Bayonet Coupling RSM Push-Pull Coupling
Environmental/Non-Environmental

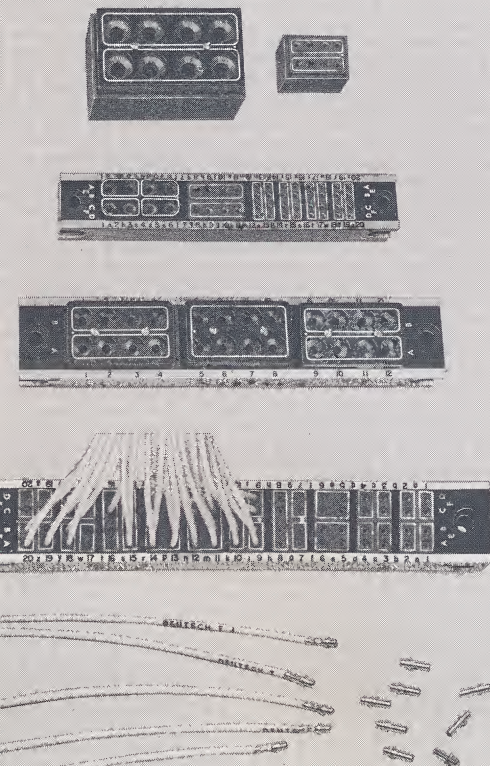
DEUTSCH TERMINAL JUNCTIONS



DEUTSCH
ELECTRONIC COMPONENTS DIVISION
Municipal Airport • Banning, California

BASIC TERMINAL JUNCTION TYPES

TERMINAL JUNCTIONS REPLACE TERMINAL STRIPS. THEY ARE ENVIRONMENTAL, LIGHT WEIGHT, HIGH DENSITY WIRING INTERCONNECTION DEVICES OF MODULAR DESIGN WHICH INCORPORATE ALL THE CHARACTERISTICS OF TODAY'S HIGHEST PERFORMANCE MULTI-CONDUCTOR ELECTRICAL CONNECTIONS. AVAILABLE IN SINGLE OR MULTI-MODULE ASSEMBLY FORMS, THESE DEVICES ACCEPT WIRE AWG 22 THROUGH AWG 4 TERMINATED WITH REAR RELEASE CRIMP CONTACTS.



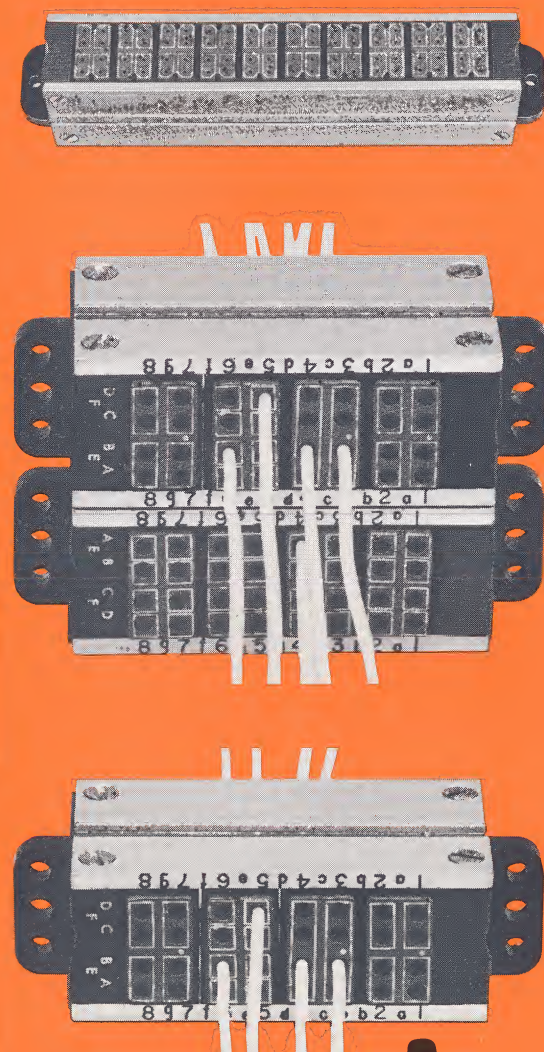
Terminal Junction Crimp Type,
Rear Release Contacts

TJ JIFFY JUNCTION®

single conductor connector that may be used
in place of splices.

OTHER TERMINAL JUNCTION DESIGNS

THE TERMINAL JUNCTION PATCHBOARD AND
FEEDTHROUGH DESIGNS... LIGHTWEIGHT, LOW
COST PROBLEM SOLVERS



TYPICAL TERMINAL JUNCTION BUSING CONFIGURATIONS*

ANY TERMINATION CAN BE ADDED OR CHANGED
WITHOUT DISTURBING ANY OTHER



02-01



02-02



02-03



02-04



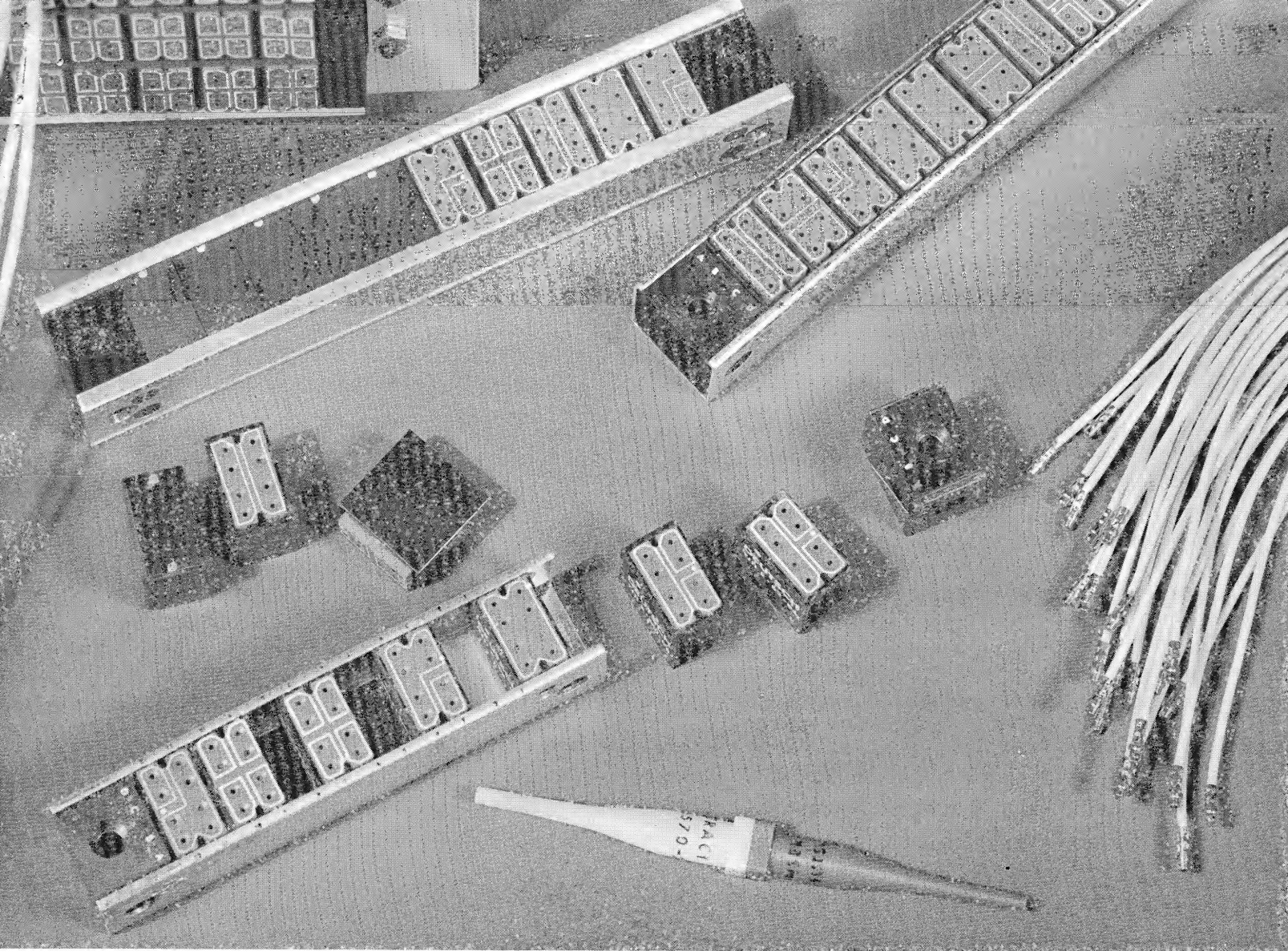
02-05



02-06



*AWG #20 ARRANGEMENTS SHOWN



ENVIRONMENTAL TERMINAL JUNCTIONS WITH REAR RELEASE, INSERTABLE/REMOVABLE CONTACTS

Through the use of the new Deutsch Terminal Junction . . . terminal strip users may now economically, conveniently and reliably upgrade their systems, even in areas exposed to severe environments, while reducing wiring steps and most important — weight. All these advantages are offered by the Deutsch TJ Series without loss in performance or reliability.

These lightweight Terminal Junctions, also available in non-environmental styles and feed-through designs, consist of any number of modules. Modules are available in a wide variety of bussing configurations and many frame lengths.

Using crimp-type pin contacts in sizes 20, 16 and 12, designed to geometry similar to NAS 1600, bent pins are an impossibility due to Deutsch simplicity of design. For ease of assembly, contacts are inserted and removed from the junction rear by a single insertion/removal tool; they are crimped by a standard MS 3191 tool.

The unique socket assembly is an integral part of the bus-bar and features a chamfer lead-in to accept the pin contact. Electrical contact is accomplished by a spring member on the contact retaining clip. This spring forces the pin contact against the opposite side of the socket cavity in the bus-bar, establishing a line contact of extremely low electrical resistance. With temperature silicone inserts, performance meets applicable portions of MIL-C-26482.

The entire contact and contact retention system assures maximum reliability and performance through simplicity of design and manufacturing technique. This system is immune from damage to the socket spring member caused by probing, or continuity checks, or in handling while out of the terminal board assembly. The electrical overtravel of the contact system — .030" to .055" — provides excellent electrical characteristics and durability.

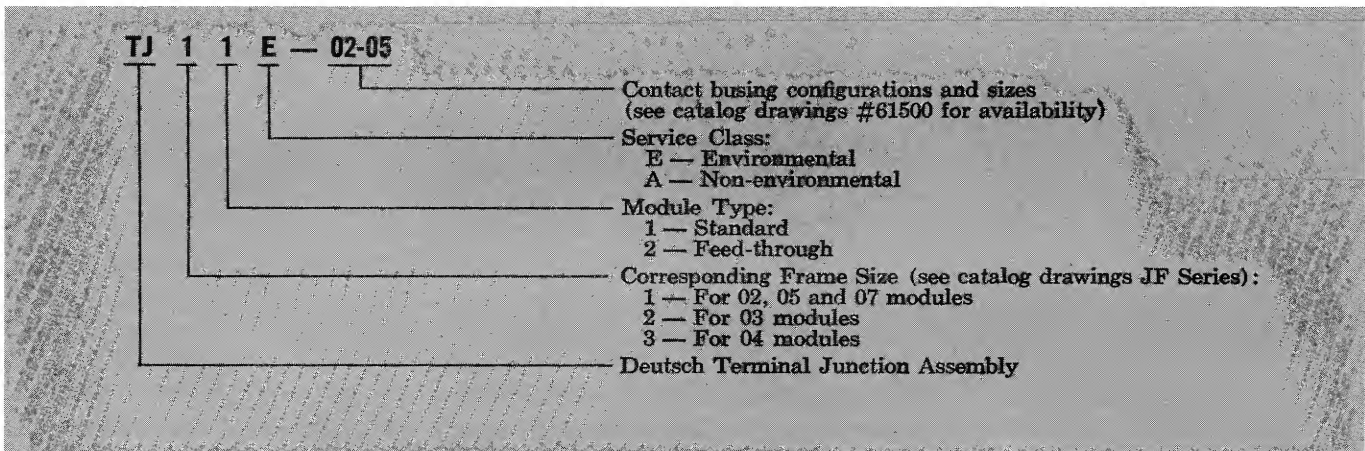


DEUTSCH TJ SERIES NUMBERING SYSTEM

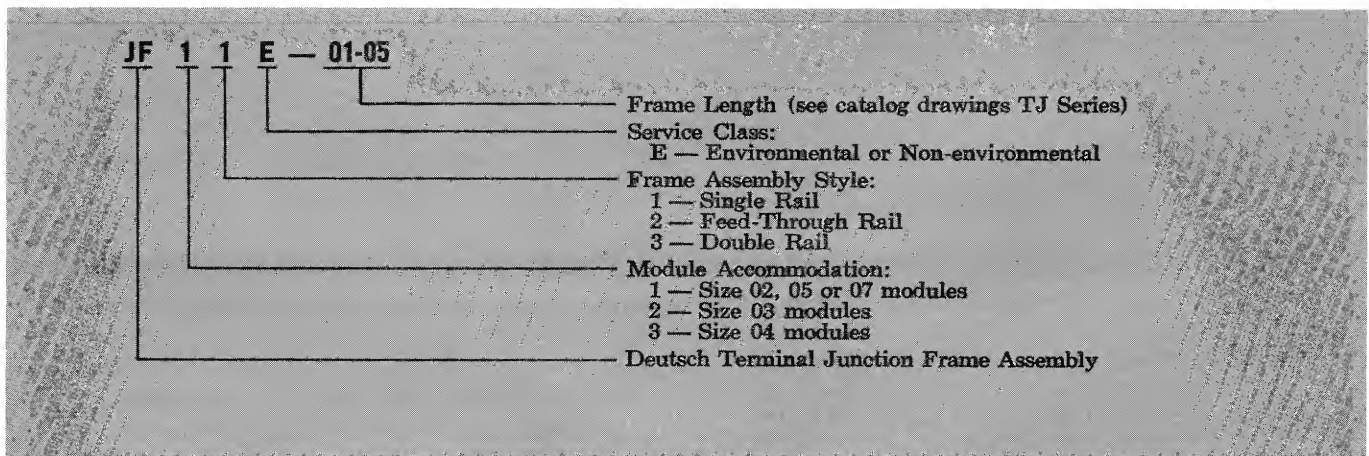
A wide range of Deutsch Terminal Junctions is available to meet the requirements of terminal strip applications . . . while offering environmental capability. Unique crimp type contact system saves time, costs, yet increases performance and reliability. The following is a key to the numbering system used to describe this rear-release interconnection device:

The Deutsch Terminal Junction consists of two major components: 1, the Module Assembly; and 2, the Junction Frame. This affords you maximum versatility in size, style, length and performance.

1. MODULE NUMBERING SYSTEM:



2. FRAME NUMBERING SYSTEM:



61500

REVISIONS

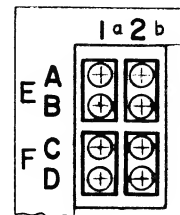
SYM

DESCRIPTION

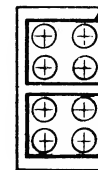
DATE

APPROVAL

ARRANGEMENT IDENTIFICATION	CONTACTS	BUSING
02-01	8 #20	4 BUSES , 2 CONTACTS PER BUS
02-02	8 #20	2 BUSES , 4 CONTACTS PER BUS
02-03	8 #20	3 BUSES 1-4 CONTACTS PER BUS 2-2 CONTACTS PER BUS
02-04	8 #20	2 BUSES , 2 CONTACTS PER BUS 6 CONTACTS PER BUS
02-05	8 #20	1 BUS , 8 CONTACTS PER BUS
02-06	8 #20	2 BUSES , 4 CONTACTS PER BUS

TYPICAL JUNCTION
FRAME
IDENTIFICATION

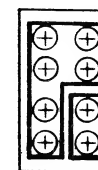
02-01



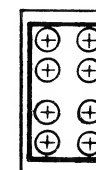
02-02



02-03



02-04



02-05



02-06

BUS ARRANGEMENT IDENTIFICATION
AS VIEWED FROM THE TOP OF MODULE
ASSY. SEE NOTE 1.2. FOR MODULE DIMENSION SEE TJIE ** - **
ENVELOPE.1. BUS ARRANGEMENT IDENTIFICATION SHOWN
ABOVE IS SILK SCREENED AND INDICATES
THE BUS CONFIGURATION WITHIN THE
MODULE.

NOTES:

SIGNATURE & DATE

DR L. SHELTON 4-9-65

CHK *M. Macdonald* 6-3-65

PE J. MAC DONALD 4-14-65

W. Haines 4-14-65APPD *ced*BUS ARRANGEMENTS,
TERMINAL JUNCTION MODULE
MODULE SIZE 02
TYPE I
ENVELOPE

SCALE NONE

WT

The Deutsch Company
ELECTRONIC COMPONENTS DIVISION
Municipal Airport • Banning, California

B

61500

DWG
SIZE

CODE 11139

SHEET 1 OF 1

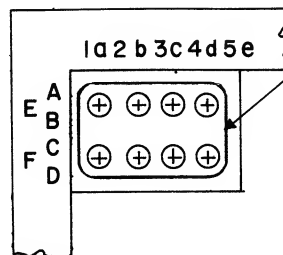
ARRANGEMENT IDENTIFICATION	CONTACTS	BUSING
05-01	8 #16	1 BUS , 8 CONTACTS PER BUS
05-02	8 #16	2 BUSES , 4 CONTACTS PER BUS

61501

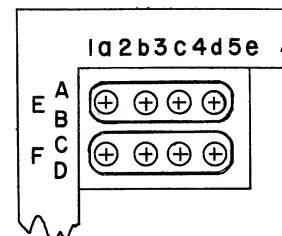
REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
-----	-------------	------	----------

BUS ARRANGEMENT IDENTIFICATION
AS VIEWED FROM TOP OF MODULE
ASSY. SEE NOTE 1.



05-01



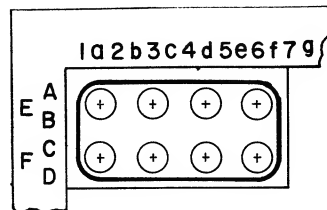
05-02

- For module dimension see TJ11E-**-** envelope.
- Bus arrangement identification shown above is silk screened and indicates the bus configuration within the module.

NOTES

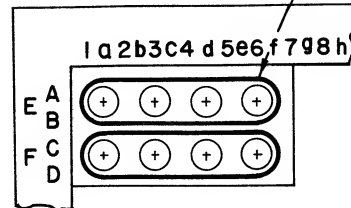
	SIGNATURE & DATE	BUS ARRANGEMENTS , TERMINAL JUNCTION MODULE MODULE SIZE 05 TYPE I ENVELOPE	The Deutsch Company ELECTRONIC COMPONENTS DIVISION Municipal Airport • Banning, California 
DR	TJ. FOREMAN 9/7/65		
CHK	G. HARNACK 9-21-65		
PE	D. A. Block		
APPD	T. J. 9-21-65		
SCALE NONE		WT	C DWG SIZE CODE 11139 SHEET 1 OF 1

ARRANGEMENT IDENTIFICATION	CONTACTS	BUSING
07-01	8 #12	1 BUS, 8 CONTACTS PER BUS
07-02	8 #12	2 BUSES, 4 CONTACTS PER BUS



07-01

BUS ARRANGEMENT IDENTIFICATION
AS VIEWED FROM TOP OF MODULE
ASSY. SEE NOTE 1.



07-02

REVISIONS			
SYM	DESCRIPTION	DATE	APPD

2. For module dimension see TJ11E-**-** envelope.

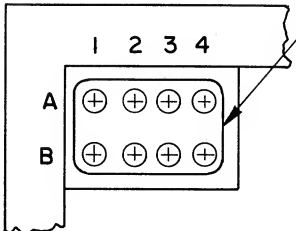
1. Bus arrangement identification shown above is silk screened and indicates the bus configuration within the module.

NOTES

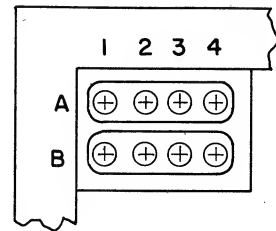
SIGNATURE & DATE		BUS ARRANGEMENTS, TERMINAL JUNCTION MODULE MODULE SIZE 07 TYPE I ENVELOPE	The Deutsch Company ELECTRONIC COMPONENTS DIVISION Municipal Airport • Banning, California		
DR	<i>Brando 9-7-65</i>			B	61502
CHK	<i>G. HARNACK 9-21-65</i>				
PE	<i>R. J. L. 4-21-65</i>				
APPD	<i>R. J. L. 4-21-65</i>				
SCALE NONE WT		DWG SIZE	CODE 1139	SHEET 1 OF 1	

ARRANGEMENT IDENTIFICATION	CONTACTS	BUSING		61503	REVISIONS			
			SYM	DESCRIPTION	DATE	APPROVAL		
03-01	8 #8	1 BUS, 8 CONTACTS PER BUS						
03-02	8 #8	2 BUSES, 4 CONTACTS PER BUS						

BUS ARRANGEMENT IDENTIFICATION
AS VIEWED FROM TOP OF MODULE
ASSY. SEE NOTE 1.



03-01



03-02

2. FOR MODULE DIMENSIONS SEE TJ21E-XX-XX ENVELOPE.

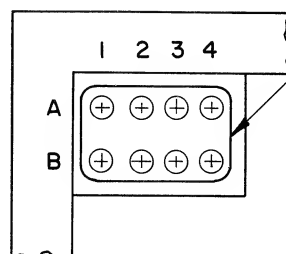
1. BUS ARRANGEMENT IDENTIFICATION SHOWN ABOVE IS SILK SCREENED AND INDICATES THE BUS CONFIGURATION WITHIN THE MODULE.

NOTES:

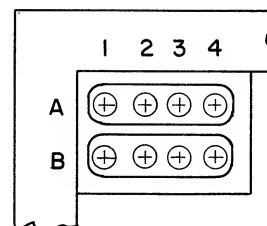
	SIGNATURE & DATE	BUS ARRANGEMENTS, TERMINAL JUNCTION MODULE MODULE SIZE 03 TYPE I ENVELOPE	The Deutsch Company ELECTRONIC COMPONENTS DIVISION Municipal Airport • Banning, California 			
DR	L. SHELTON 10/26/65					
CHK	M. Lippert 11-23-65					
PE	A. C. Lippert 11-23-65					
APPD						
		SCALE NONE	WT	B DWG SIZE	61503 CODE 11139	SHEET 1 OF 1

ARRANGEMENT IDENTIFICATION	CONTACTS	BUSING	61504	REVISIONS			
				SYM	DESCRIPTION	DATE	APPROVAL
04-01	8 # 4	1 BUS, 8 CONTACTS PER BUS					
04-02	8 # 4	2 BUSES, 4 CONTACTS PER BUS					

BUS ARRANGEMENT IDENTIFICATION
AS VIEWED FROM TOP OF MODULE
ASSY. SEE NOTE 1.



04-01



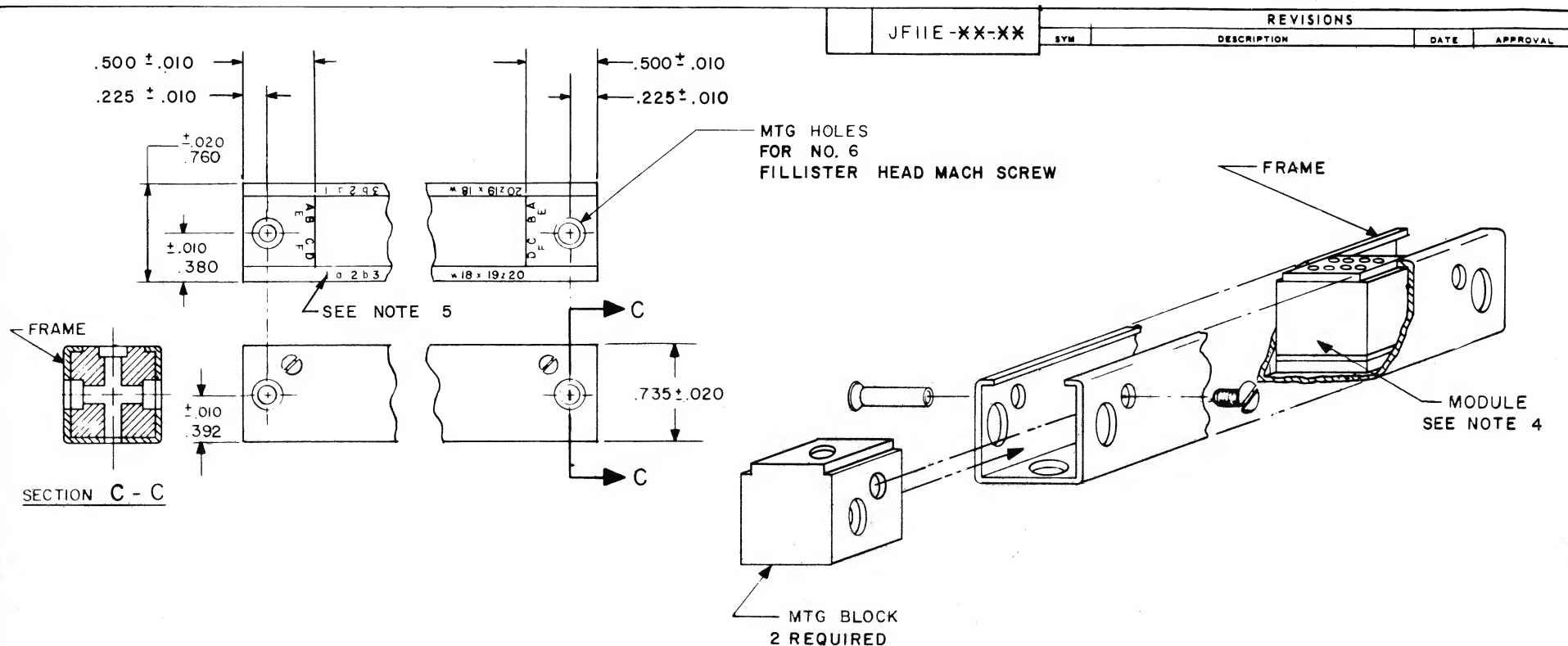
04-02

2. For module dimension see TJ31E-**-** envelope.

1. Bus arrangement identification shown above is silk screened and indicates the bus configuration within the module.

NOTES:

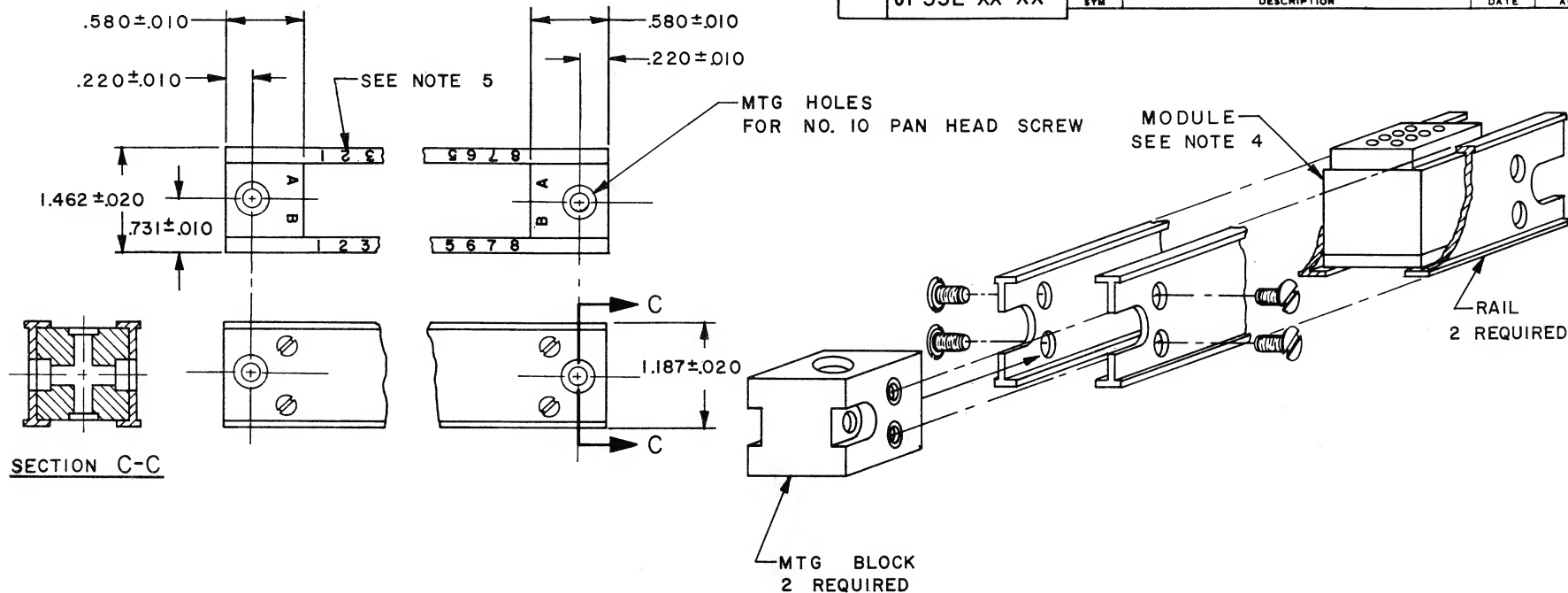
SIGNATURE & DATE		BUS ARRANGEMENTS , TERMINAL JUNCTION MODULE MODULE SIZE 04 TYPE I ENVELOPE	The Deutsch Company ELECTRONIC COMPONENTS DIVISION Municipal Airport • Banning, California	
DR	<i>F. H. Helton 10/27/65</i>			B
CHK	<i>M. J. Mason 11-23-65</i>			
PE	<i>G. D. Lippard 11-23-65</i>			
APPD				
SCALE NONE		WT	DWG SIZE	CODE 11139 SHEET 1 OF 1



5. CAVITY IDENTIFICATION MARKINGS ARE SILK SCREENED ON TOP SURFACES OF RAIL AND END BLOCKS AS SHOWN.
4. FOR AVAILABLE MODULE ARRANGEMENTS SEE 61500 SERIES CATALOG.
3. THIS FRAME ACCOMMODATES MODULE SIZES 02,05 AND 07. CONSULT CATALOG TJIE-**-** FOR MODULE DIMENSIONS.
2. JFIE-**-**
 LENGTH OF FRAME, CONSULT FACTORY
1. FOR ELECTRICAL AND MATERIAL SPECIFICATIONS SEE GENERAL DESCRIPTION.

NOTES:

JFIE-**-**		REVISIONS	
SYM	DESCRIPTION	DATE	APPROVAL
SIGNATURE & DATE		FRAME, TERMINAL JUNCTION FRAME SIZE I TYPE I ENVELOPE	
DESIGNED BY	T. J. FOREMAN		
CHECKED BY	M. J. FOREMAN 6-16-65		
PERMANENT BY	J. MAC DONALD 6-16-65		
APPROVED BY	W. H. HARRIS 6-15-65		
APPD	C. E. D.	SCALE NONE	WT
The Deutsch Company ELECTRONIC COMPONENTS DIVISION Municipal Airport • Banning, California		DWG S. Z. E.	
B JFIE-**-**		CODE 1139 SHEET 1 OF 1	



5. CAVITY IDENTIFICATION MARKINGS ARE LOCATED ON BOTH SIDES OF RAILS AND END BLOCKS.
 4. THIS FRAME WILL ACCOMMODATE SIZE 04 MODULE ONLY. CONSULT CATALOG TJ31E-XX-XX FOR MODULE DIMENSIONS.
 3. FOR AVAILABLE MODULE ARRANGEMENT SEE 61500 SERIES CATALOG.
 2. JF33E-XX-XX
LENGTH OF FRAME, CONSULT FACTORY.
 1. FOR ELECTRICAL AND MATERIAL SPECIFICATIONS SEE GENERAL DESCRIPTION.
- NOTES:

JF33E-XX-XX		REVISIONS		
SYM	DESCRIPTION	DATE	APPROVAL	
DR	L. SHELTON 10/28/65			
CHK	M. SHELTON 11-10-65			
PE	George G. Gifford 11/10/65			
APPD				
		FRAME TERMINAL JUNCTION FRAME SIZE 3 TYPE 3		
		ENVELOPE		
		SCALE NONE	WT	
		The Deutsch Company ELECTRONIC COMPONENTS DIVISION Municipal Airport • Banning, California		
				
		B JF33E-XX-XX DWG SIZE CODE 11139 SHEET 1 OF 1		

TJ11E-**-**

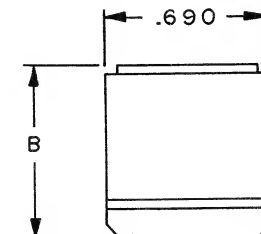
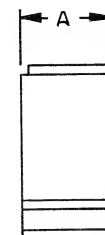
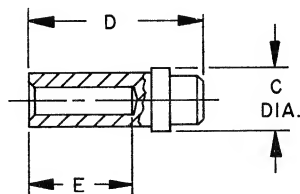
REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
-----	-------------	------	----------

CONTACT DATA

PART NUMBER	SIZE	WIRE RANGE	SEALING RANGE		C ±1/32	D ±1/32	E MIN	INSERT AND EXTRACT TOOL NUMBER	CRIMP TOOL
			MIN. O.D.	MAX. O.D.					
1841-1-5620	20	24-22-20	.040	.083	7/64	9/32	11/64	M15570-20	15500-20-7
1841-1-5616	16	20-18-16	.068	.103	9/64	25/64	1/4	M15570-16	15500-16-7
1841-1-5612	12	14-12	.106	.158	3/16	27/64	17/64	M15570-12	15500-12-7

PART NUMBER	WEIGHT IN LBS.	A ±1/32	B ±1/32
TJ11E-02-**-**		13/32	3/4
TJ11E-05-**-**		1	3/4
TJ11E-07-**-**		1 9/32	15/16



4. TJ11E-**-**

BUS ARRANGEMENT
MODULE SIZE

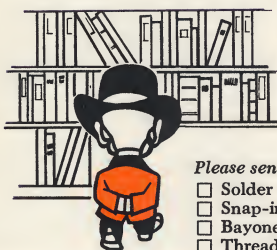
- THESE MODULE SIZES MAY BE USED IN SIZE 1 FRAME ONLY.
- THE BUS IDENTIFICATION WILL BE SCREENED ON MODULE ASSY. FOR AVAILABLE MODULE ARRANGEMENT SEE CATALOG ENVELOPE DWG, 61500 SERIES.
- SEE "GENERAL DESCRIPTION" FOR ELECTRICAL AND MATERIAL SPECIFICATION.

NOTES:

SIGNATURE & DATE		MODULE ASSEMBLY TERMINAL JUNCTION SIZE 02, 05 & 07 TYPE I ENVIRONMENTAL ENVELOPE		The Deutsch Company ELECTRONIC COMPONENTS DIVISION Municipal Airport • Banning, California 		
DR	R. LARKIN 9-9-65					
CHK	G. HARNACK 9-21-65					
PE	D. G. Block					
APPD	L. L. J. 9-21-65					
SCALE NONE		WT	DWG SIZE		CODE 11139	SHEET 1 OF 1

LITERATURE REQUEST

I received the literature requested ☐
 Place me on your mailing list ☐
 My interest is in general information ☐
 I have an immediate problem ☐
 I anticipate a problem ☐
 Please have a representative call ☐



Please send me the following:

- ☐ Solder type connectors (DM)
- ☐ Snap-in type connectors (DS)
- ☐ Bayonet-lock connectors (DTK)
- ☐ Thread-assist connectors (MDR)
- ☐ Hermetic Connectors
- ☐ Snap-in type rectangulars

- ☐ Oil resistant insert connectors (DD/DTK)
- ☐ Subminiature connectors (DSM/STK/ER-MR)
- ☐ Push-pull bayonet-lock plugs
- ☐ Terminal junctions
- ☐ 6 page General Capsule Catalog
- ☐ "Silicones Versus Neoprenes"
- ☐ Environmental Rear-Release (NAS1599)
- ☐ Low cost MS bayonet-lock (LPT)
- ☐ Cryogenic Feedthrough Kits (L-R)
- ☐ Non-environmental Rear-Release (450)
- ☐ Environmental, low cost Rear Release (460)
- ☐ Other technical information (describe)

DEUTSCH

Name _____

Title _____

Company _____

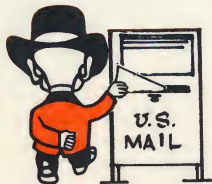
Dept, Zone, Etc. _____

Address _____

City, State, Zip _____

SIGNATURE _____

DANKESCHÖN



Our Company thanks you—your Deutsch Representative thanks you—and the Deutschman thanks you...for your recent inquiry. The data you requested is enclosed.

To make sure you received the information you requested, or to request additional data regarding the complete line of Deutsch advanced specification electrical connectors...please return the attached card.

FIRST CLASS
PERMIT 12
BANNING, CALIFORNIA

BUSINESS REPLY MAIL

No Postage Stamp Necessary if Mailed in the United States

The Deutsch Company

ELECTRONIC COMPONENTS DIVISION

MUNICIPAL AIRPORT

BANNING, CALIFORNIA

